

5'	9	18	27	36	45	54
T	CAG TTT	CCT GCC AAT GAC GCT GGG GCA GCC GGG GCA GCC GCA GCC				CGG
	63	72	81	90	99	108
TCA	CCC CGC CCC CAG GCC CAC ACT AAG GGT GTC CGC GGC CTG CCC TCC AGG					CGG
	117	126	135	144	153	162
AGG	AGC CCG GAC TGC GGA AGG ATG GAG CTG GCC GCC GGA AGC TTC TCG TCG GAG					GAG
	171	180	189	198	207	216
CAG	TTC TGG GAG GCC TGC GCC GAG CTC CAG CAG CCC GCT CTG GCC GGG GCC					GAC
Q	F W E A C A E L Q Q P A L A G A D					
	225	234	243	252	261	270
TGG	CAG CTC CTA GTG GAG ACC TCG GGC ATC AGC ATC TAC CGG CTG CTG GAC					AAG
W	Q L L V E T S G I S I Y R L L D K					
	279	288	297	306	315	324
AAG	ACT GGA CTT TAT GAG TAT AAA GTC TTT GGT GTT CTG GAG GAC TGC TCA					CCA
K	T G L Y E Y K V F G V L E D C S P					
	333	342	351	360	369	378
ACT	CTA CTG GCA GAC ATC TAT ATG GAC TCA GAT TAC AGA AAA CAA TGG GAC					CAG
T	L L A D I Y M D S D Y R K Q W D Q					
	387	396	405	414	423	432
TAT	GTT AAA GAA CTC TAT GAA CAA GAA TGC AAC GGA GAG ACT GTG GTC TAC					TGG
Y	V K E L Y E Q E Q E C N G E T V Y W					

FIGURE 1A

441	450	459	468	477	486
GAA GTG AAG TAC CCT TTT CCC ATG TCC AAC AGA GAC TAT GTC TAC CTT CGG CAG					
E V K Y P F P M S N R D Y V L R Q					
495	504	513	522	531	540
CGG CGA GAC CTG GAC ATG GAA GGG AGG AAG ATC CAT GTG ATC CTG GCC CGG AGC					
R R D L D M E G R K I H V I L A R S					
549	558	567	576	585	594
ACC TCC ATG CCT CAG CTT GGC GAG AGG TCT GGG GTG ATC CGG GTG AAG CAA TAC					
T S M P Q L G E R S G V I R V K Q Y					
603	612	621	630	639	648
AAG CAG AGC CTG GCG ATT GAG AGT GAC GGC AAG AAG GGG AGC AAA GTT TTC ATG					
K Q S L A I E S D G K K G S K V F M					
657	666	675	684	693	702
TAT TAC TTC GAT AAC CCG GGT GGC CAA ATT CCG TCC TGG CTC ATT AAC TGG GCC					
Y Y F D N P G G Q I P S W L I N W A					
711	720	729	738	747	756
GCC AAG AAT GGA GTT CCT AAC TTC TTG AAA GAC ATG GCA AGA GCC TGT CAG AAC					
A K N G V P N F L K D M A R A C Q N					
765	774	783	792	801	810
TAC CTC AAG AAA ACC TAA GAA AGA GAA CTG GGA ACA TTG CAT CCA TGG GTT GAT					
Y L K K T					

FIGURE 1B

819	828	837	846	855	864
GTC TCT GGA AGT GCA ACC ACC CAA TGT CTC TGG AAG TGC CAC CTG GAA GTG CCA					
873	882	891	900	909	918
CCT GGA AGT GTC TCT GGA AGA GCA CCC ACC ACT GTT CAG CCT TCC CCT GCT GTT					
927	936	945	954	963	972
TCT GTC TTC AGA GGC CTA CAC ACT ACC ACA TCC TTT CTA AGC ATG TTT GCC TGA					
981	990	999	1008	1017	1026
CAT CCA GCT CAC TCG TCT GCT TCC TTT CTC GCT CCC CAT CCT GGT GCT GGG					
1035	1044	1053	1062	1071	1080
GCT GCC TTC TTC TAC AGT TCA ATA TGG GGC AGA CTA GGG AAA CCT TTG CTT GCT					
1089	1098	1107	1116	1125	1134
TAC TAT TAG GAG GGG AAG TCT TCA GTA GGG AAC ACG ATC ATT CCA TTG TGC AAT					
1143	1152	1161	1170	1179	1188
TTT ACG GGG ATG GGT GGG CGG AGG GAC ACA ACA AAA TTT AAG AAT GAC TAT TTG					
1197	1206	1215	1224	1233	1242
GGC GGG CTG GCT CTT TTG CAG CTT GTG ATT TCT TCC AGC TTG GGA GGT GCT GCT					
1251	1260	1269	1278	1287	1296
GGA AGT GGC ATT TCG TTC AGA GCT GAC TTT CAG TGC ACC CAA ACT GGA TGA CGT					
1305	1314	1323	1332	1341	1350
GCC AAT GTC CAT TTG CCT TAT GCT TTG TGG AGC TGA TTA GCC TGG GAT TTG AGG					

FIGURE 1C

1359	1368	1377	1386	1395	1404
TGA TAA TCC AGT AAG TCT TTC CTC GTT CCT ACT TGT GGA GGA TCA GTA GCT GTT					
1413	1422	1431	1440	1449	1458
ATG ATG CCA GAC CAT TTG GAG AAG TAT CAG AGG CCT GAC CGG ACA CAT AAT ACG					
1467	1476	1485	1494	1503	1512
ACA ACC ACA TTT TTC CTC ATC ATC CAT GAG GAA ATG GAT GAT TTC TCT TTT CCA					
1521	1530	1539	1548	1557	1566
TAT GTC ACT GGG GGA AAG GCT GCC TGT ACC TCT CAA GCT TTG CAT TTT ACT GGA					
1575	1584	1593	1602	1611	1620
AAC TGA GGC GTC AAG ATG GCT GTG GCC AGC TAG CAA AAG CAA AGA TGC TTT GTG					
1629	1638	1647	1656	1665	1674
CAT AGC CTT GTG AAA AAG TAT CTT TCT ATG CAA TAA GAT GAA TTT TCC TCC CAG					
1683	1692	1701	1710	1719	1728
AAT ATT TAG AAA TGT AGA AGG GAT AAC AGT TCA CAG CCA GGT AAA ATT TAA CTG					
1737	1746	1755	1764	1773	1782
GTG GCT TAA TGA CTC TGC ACC TTT TTC TCA GGA ATT CTG CCT AAG TTG TCT GCC					
1791	1800	1809	1818	1827	1836
TTT TCT ACC ACC AAA AAG ACT TTT AGT TTT CTA TGC TTT CTC CTG AAT TTT GGT					
1845	1854	1863	1872	1881	1890
AGG GTA AGG TAT TTC TAT GTC AAA GGC ACA GCC TTG ATG ATC TCA GGG AAA AAT					

FIGURE 1D

TTTT90" T046Z860

1899	1908	1917	1926	1935	1944
TTT AAT CAC TGT GTA TAA TGA TAC TGA ACC TTG ATT AAT AAC AGA AAT TCA GGA					
1953	1962	1971	1980	1989	1998
TGT AAA GCC ACA GAA TGG GAT TTA TTA ATG TGG GAT ACC TCA GAC TGT TTG TTT					
2007	2016	2025	2034	2043	2052
TCT TTC TGG GAA GAA AAG TGT GTT CTA TAA TGA ATA AAT ATA GAG TGG TTT TTA					

A 3'

FIGURE 1E

	9	18	27	36	45	54
5'	AGT ACT TGT GTC CGG GTG GTG GAC TGG ATT CGC TGC GGA GCC CTG GAA GCT GCC					
	63	72	81	90	99	108
TTT CCT TCT CCC TGT GCT TAA CCA GAG GTG CCC ATG M G W T M R L						
	117	126	135	144	153	162
GTC ACA GCA GCA CTG TTA CTG GGT CTC ATG ATG GTG GTC ACT GGA GAC GAG GAT V T A A L L L G L M M V V T G D E D						
	171	180	189	198	207	216
GAG AAC AGC CCG TGT GCC CAT GAG GCC CTC TTG GAC GAG GAC ACC CTC TTT TGC E N S P C A H E A L L D E I G T L F C						
	225	234	243	252	261	270
CAG GGC CTT GAA GTT TTC TAC CCA GAG TTG GGG AAC ATT GGC TGC AAG GTT GTT Q G L E V F Y P E L L G N I G C K V V						
	279	288	297	306	315	324
CCT GAT TGT AAC AAC TAC AGA CAG AAG ATC ACC TCC TGG ATG GAG CCG ATA GTC P D C N N Y R Q K I T S W M E P I V						
	333	342	351	360	369	378
AAG TTC CCG GGG GCC GTG GAC GGC GCA ACC TAT ATC CTG GTG ATG GTG GAT CCA K F P G A V D G A T Y I L V M V D P						

FIGURE 2A

387	396	405	414	423	432
GAT GCC CCT AGC AGA GCA GAA CCC AGA CAG AGA TTC TGG AGA CAT TGG CTG GTA	D A P S R A E P R Q R F W R H W L V				
441	450	459	468	477	486
ACA GAT ATC AAG GGC GCC GAC CTG AAG GAA GGG AAG ATT CAG GGC CAG GAG TTA	T D I K G A D L K E G K I Q G Q E L				
495	504	513	522	531	540
TCA GCC TAC CAG GCT CCC TCC CCA CCG GCA CAC AGT GGC TTC CAT CGC TAC CAG	S A Y Q A P S P A H S G F H R Y Q				
549	558	567	576	585	594
TTC TTT GTC TAT CTT CAG GAA GGA AAA GTC ATC TCT CTC CTT CCC AAG GAA AAC	F V Y L Q E G K V I S L L P K E N				
603	612	621	630	639	648
AAA ACT CGA GGC TCT TGG AAA ATG GAC AGA TTT CTG AAC CGC TTC CAC CTG GGC	K T R G S W K M D R F L N R F H L G				
657	666	675	684	693	702
GAA CCT GAA GCA AGC ACC CAG TTC ATG ACC CAG AAC TAC CAG GAC TCA CCA ACC	E P E A S T Q Q F M T Q N Y Q D S P T				
711	720	729	738	747	756
CTC CAG GCT CCC AGA GGA AGG GCC AGC GAG CCC AAG CAC AAA AAC CAG GCG GAG	L Q A P R G R A S E P K H K N Q A E				

FIGURE 2B

TCTTGT "TCTTGT" 2360

765	774	783	792	801	810
ATA GCT GCC TGC TAG ATA GCC GGC TTT GCC ATC CGG GCA TGT GGC CAC ACT GCC					
I A A C					
819	828	837	846	855	864
CAC CAC CGA CGA TGT GGG TAT GGA ACC CCC TCT GGA TAC AGA ACC CCT TCT TTT					
873	882	891	900		
CCA AAT AAA AAA AAA ATC ATC CAG GGC TTG GTG CTT TGT 3'					

FIGURE 2C

1	M E L A A G S F S E E Q F W E A C A E L	3014759
1	M D P G A G A F S E E Q F R E A C A E L	GI 897693
21	Q Q P A L A G A D W Q L L V E T S G I S	3014759
21	Q R P A L S G A A W E L L V E T Q G I S	GI 897693
41	I Y R L L D K K T G L Y E Y K V F G V L	3014759
41	V Y R L L D Q Q T G L Y A Y K V F G V L	GI 897693
61	E D C S P T L L A D I Y M D S D Y R K Q	3014759
61	E D C L P D L L A D V Y M D L A Y R K Q	GI 897693
81	W D Q Y V K E L Y E Q E C N G E T V V Y	3014759
81	W D Q Y V K E L Y E K E C S G E T V V Y	GI 897693
101	W E V K Y P F P M S N R D Y V Y L R Q R	3014759
101	W Q V K Y P F P M S N R D Y V Y V R Q R	GI 897693
121	R D L D M E G R K I H V I L A R S T S M	3014759
121	Q E L D F E G Q K V H V I L A Q S T S E	GI 897693
141	P Q L G E R S G V I R V K Q Y K Q S L A	3014759
141	P Q F P E K S G V I R V K H Y K Q R L A	GI 897693
161	I E S D G K K G S K V F M Y Y F D N P G	3014759
161	I Q S D G K K G S K V F M Y Y F D N P G	GI 897693
181	G Q I P S W L I N W A A K N G V P N F L	3014759
181	G Q I P S W V I N W A A K N G V P N F L	GI 897693
201	K D M A R A C Q N Y L K K T	3014759
201	K D M V K A C Q N Y - K K T	GI 897693

FIGURE 3

1	M G W T M R L V T A A L L L G L M M V V	3126479
1	V - - - - - V S T S P T K L - - - - -	GI 1143527
21	T G D E D E N S P C A H E A L L D E D T	3126479
10	- - - - - - - - - - - - - - - - -	GI 1143527
41	L F C Q G L E V F Y P E L G - N I G C K	3126479
10	- - - - - V N V S Y N N L T V N L G N E	GI 1143527
60	V V P D C N N Y R Q K I T S W M E P I V	3126479
25	L T P T Q V K N Q P T K V S W - - - - -	GI 1143527
80	K F P G A V D G A T Y I L V M V D P D A	3126479
40	- - - D A E P G A L Y T L V M T D P D A	GI 1143527
100	P S R A E P R Q R F W R H W L V T D I K	3126479
57	P S R K N P V F R E W H H W L I I N I S	GI 1143527
120	G A D L K E G K I Q G Q E L S A Y Q A P	3126479
77	G Q N V S S G T V - - - - L S D Y I G S	GI 1143527
140	S P P A H S G F H R Y Q F F V Y L Q E G	3126479
93	G P P K G T G L H R Y V F L V Y K Q P G	GI 1143527
160	K V I S L L P K E N K T R G S W K M D R	3126479
113	S I T D - - T Q H G G N R P N F K V M D	GI 1143527
180	F L N R F H L G E P E A S T Q F M T Q N	3126479
131	F A N K H H L G N P V A G N F F - - - -	GI 1143527
200	Y Q D S P T L Q A P R G R A S E P K H K	3126479
147	- - - - - - - - - - - - - Q A K H E	GI 1143527
220	N Q A E I A A C	3126479
152	D	GI 1143527

FIGURE 4

09879401.061101

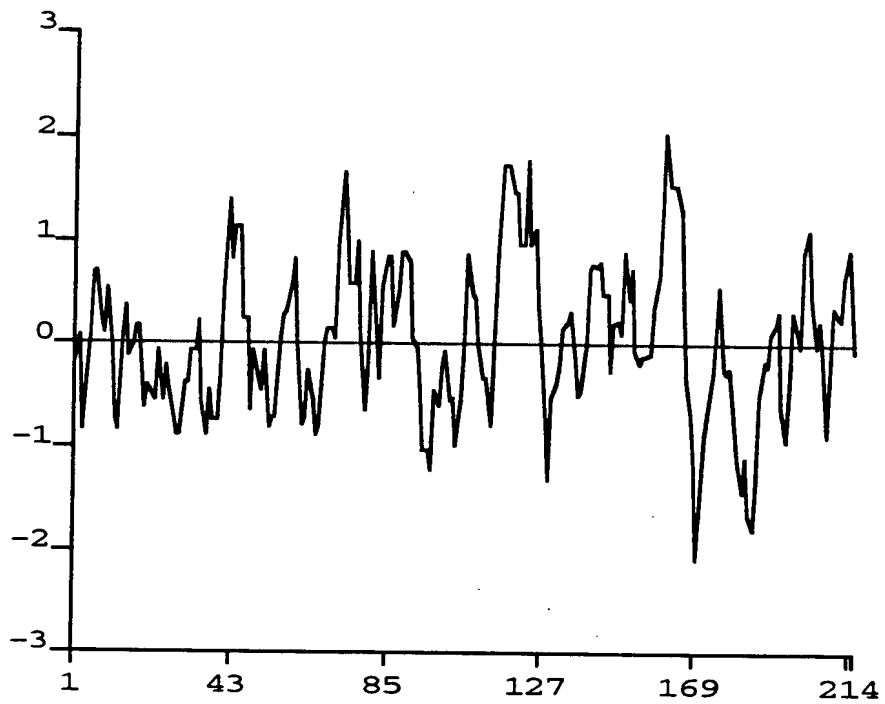


FIGURE 5A

09879401.061101

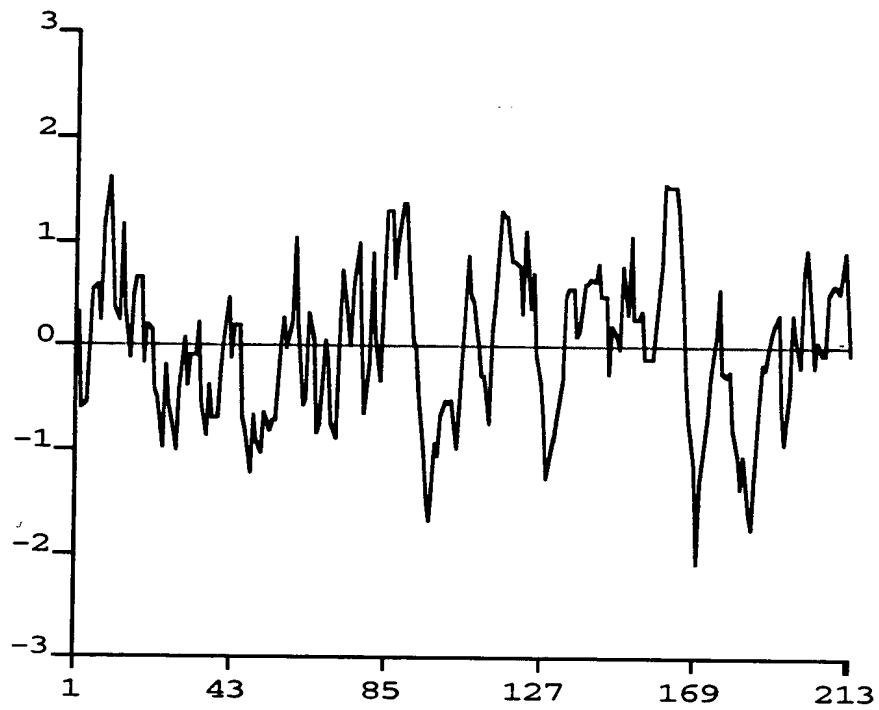


FIGURE 5B